ND6

HIGH FREQUENCY TRANSDUCER

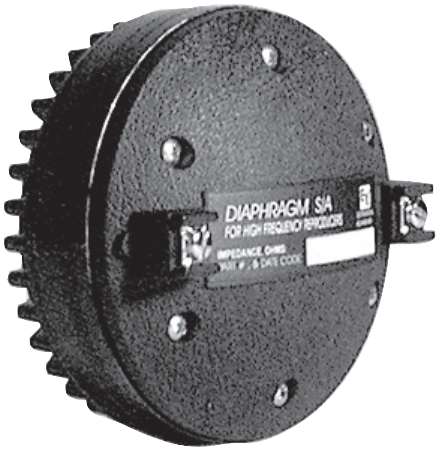
ND6-8/ND6-16

3-Inch High Frequency Neodymium Transducer

Step Up To Electro-Voice®

Key Features:

- **Extremely high acoustic output**
- **Geometrically optimized titanium diaphragm**
- **Very high sensitivity and reliability**
- **Neodymium magnet provides unprecedented output to size ratio**
- **Compact, rugged and light weight**
- **1.4" exit diameter**
- **2.0" exit diameter with ADH-6 adapter**
- **Die-cast aluminum heatsink**



General Description:

The Electro-Voice ND6 is a world-class high-frequency compression driver capable of extremely high acoustic output over a wide frequency range.

Precise engineering, along with careful selection of materials and advanced driver architecture, has resulted in a driver that is ideally suited for the most demanding presentation of high quality music and communications program.

Incorporating Electro-Voice's exclusive Ring Mode Decoupling (RMD) through all design phases has produced drivers with unmatched accuracy while minimizing acoustic resonances and time domain ringing throughout the driver structure.

The resulting small size and weight-to-power ratio of the ND6 assures easy installations where weight may be a concern. The 2.15 Tesla flux density provided by the Neodymium magnet exceeds that of conventional drivers at a fraction of the size.

A unique, geometrically optimized 3" titanium diaphragm, consisting of a one-piece dome and suspension system gives these drivers an ideal combination of superb high-frequency response and resistance to fatigue.

Integrated into the ND6's design is a finned aluminum heatsink to increase power handling and reliability.

Technical Specifications:

	ND6-8	ND6-16
Nominal Impedance:	8 ohms	16 ohms
Minimum Impedance:	7 ohms @ 6 kHz	14 ohms
DC Resistance:	4.5 ohms	10 ohms
Freq. Response:	1000-20,000 Hz	
Power Capacity[1]:	75 Watts, 150 Watts Cont. Prog.	
Recommended Crossover[2]:	1000 Hz or higher	
Nominal Efficiency:	28%	
Sound Pressure Level[3]: (1 Watt @ 1 Meter)	114 dB, HP420 Horn 112 dB, HP640 Horn 110 dB, HP940 Horn	
Throat Diameter:	1.38" (35mm)	
Voice Coil Diameter:	3" (75 mm)	
Voice Coil Wire:	Pure Aluminum Ribbon	
Diaphragm Construction:	0.05 mm Pure Titanium Dome and Surround	
Electrical Connection:	Screw Terminals (Accepts a pair of 12GA Wires	
Polarity:	Positive Voltage to Positive Terminal Produces a Positive Acoustic Pressure	
Flux Density:	2.15 Tesla	
Net Weight (each):	5.5 lbs (2.5 kg)	
Shipping Weight:	6.5 lbs (3.0 kg)	

[1] Power capacity per AES standard. Continuous pink noise with a 6 dB crest factor, 2 hours.
[2] For applications below 1000 Hz, use ND6x.
[3] Sound Pressure measured on axis in the far field with 1 Watt input of band-limited pink noise from 1000 - 5000 Hz and calculated to 1 Meter equivalent by inverse square law.

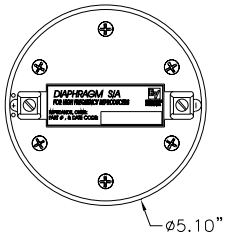
Electro-Voice®

General Description (Cont'):

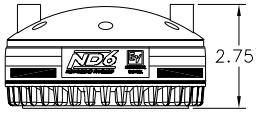
Pure aluminum rectangular voice coil wire is used to obtain the highest sensitivity. Proprietary bonding and winding technologies assure unsurpassed reliability.

Electro-Voice's commitment to precision compression driver manufacturing and modern design techniques assure the ND6 user the highest level of audio and engineering excellence.

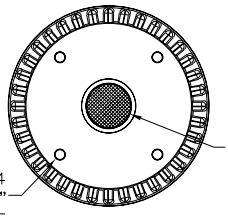
Dimension Drawings:



Top View

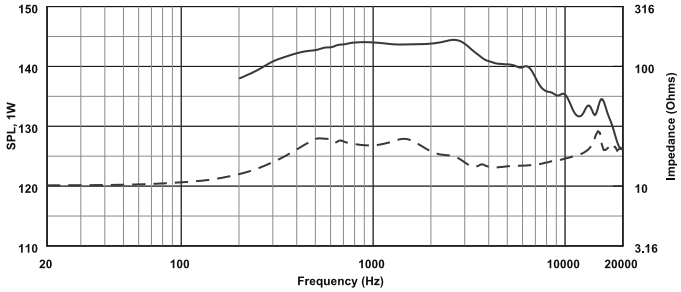


Side View



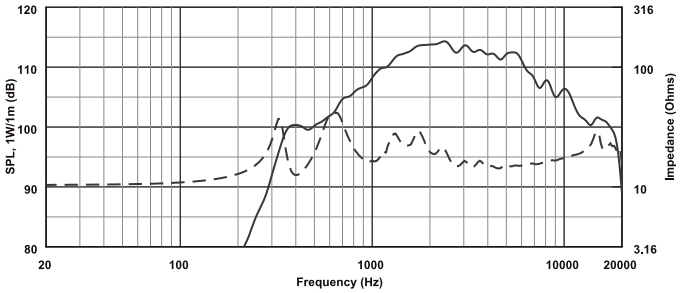
Bottom View

Frequency Response (On a Tube):



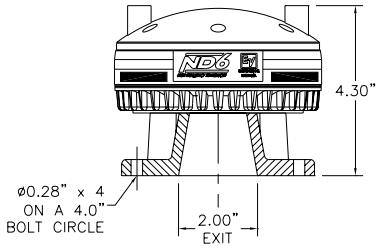
Note: Frequency response and impedance of the ND6-16 driver attatched to a 38mm (1.5") diameter plane wave tube, using one watt input (4 Vrms).

Frequency Response (On an HP94 Horn):



Note: Frequency response and impedance of the ND6-16 driver attached to an HP94 Horn, measured on axis in the far field using one watt input (4 Vrms). SPL calculated to 1 meter equivalent by inverse square law.

Dimension Drawings (Cont'):



Side View (Shown with Optional ADH-6 Adapter)

Accessories:

- ADH-6 Adapter (For 2" Exit) 591183-102
  (must be purchased separately)

ND6-8 Part Number: 301051-102
ND6-16 Part Number: 301052-102

Electro-Voice®

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Part Number 38110-083 Rev. A

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800/392-3497 Fax: 800/955-6831
Europe, Africa, and Middle East only. For customer orders, contact Customer Service at:
+ 49 9421-706 0 Fax: + 49 9421-706 265
Other International locations. For customer orders, contact Customer Service at:
+ 1 952 884-4051 Fax: + 1 952 887-9212
For warranty repair or service information, contact the Service Repair department at:
800/685-2606
For technical assistance, contact Technical Support at: **866/78AUDIO**

Specifications subject to change without notice.